



National Weather Service

Storm Data and Unusual Weather Phenomena



January 1997

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm
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SOUTH DAKOTA, West

SDZ001>002-012>014-024>025-028-031>032-043>044-046>047-049 Harding - Perkins - Butte - Meade Co. Plains - Ziebach - Northern Black Hills - Northern Foot Hills - Central Black Hills - Pennington Plains - Haakon - Jackson - Bennett - Mellette - Todd - Tripp

04	0000MST	0	0	Blizzard
05	1200MST			

A mix of wintry precipitation changed to all snow. Across the plains of western South Dakota, two to six inches of snow fell with Harding and Perkins counties being the hardest hit. Up to nine inches fell in the central and northern Black Hills. Strong northwest winds, frequently to 40 mph, caused near zero visibility in blowing and drifting snow. Most roads, along and north of Interstate 90 and in the northern Black Hills, were closed or blocked by drifted snow. Numerous auto accidents and isolated power outages were reported.

SDZ001>002-012>014-024>026-030>032-042>044-046>047-049 Harding - Perkins - Butte - Meade Co. Plains - Ziebach - Northern Black Hills - Northern Foot Hills - Central Foot Hills - Custer Plains - Pennington Plains - Haakon - Shannon - Jackson - Bennett - Mellette - Todd - Tripp

09	0400MST	0	0	Blizzard
10	2000MST			

A surge of arctic air with 40 to 60 mph winds created deadly wind chill indices to 80 below. Snowfall amounts were light over the plains, but winds lifted snow already on the ground resulting in zero visibility. Most roads, including Interstate 90, were closed along and north of a line from Belle Fourche to Wall to Winner. Heavy snow occurred in the northern Black Hills with a maximum of 12 inches near Lead. Numerous automobile accidents and scattered power outages were reported.

SDZ001>002-012>014-024>032-041>044-046>047-049 Harding - Perkins - Butte - Meade Co. Plains - Ziebach - Northern Black Hills - Northern Foot Hills - Central Foot Hills - Southern Foot Hills - Central Black Hills - Southern Black Hills - Custer Plains - Pennington Plains - Haakon - Fall River Co. - Shannon - Jackson - Bennett - Mellette - Todd - Tripp

09	1200MST	0	0	Extreme Cold
12	1200MST			

Arctic air lowered temperatures into the ten to 30 below zero range for overnight lows with highs remaining below zero. A persistent northwest wind produced wind chill indices from 30 to 70 below zero through the period. The bitter cold made digging out from the recent blizzard difficult. Also, the cold contributed to damage and loss of livestock.

SDZ001>002-012>014-024>025-031>032-043 Harding - Perkins - Butte - Meade Co. Plains - Ziebach - Northern Black Hills - Northern Foot Hills - Pennington Plains - Haakon - Jackson

15	0300MST	0	0	Blizzard
16	1200MST			

WYOMING, Northeast

WYZ054>058 Gillette - South Campbell - Moorcroft - Wyoming Black Hills - Weston

04	0000MST	0	0	Blizzard
	1800MST			

Three to five inches of snow combined with 40 mph winds created hazardous travel conditions. Visibility was near zero at times with blowing and drifting snow.

WYZ054>058 Gillette - South Campbell - Moorcroft - Wyoming Black Hills - Weston

09	0200MST	0	0	Blizzard
10	0600MST			

Two to eight inches of snow combined with 50 mph winds to reduce visibilities to zero. Along with hazardous travel conditions, wind chill indices dropped to 60 below zero.

WYZ054>058 Gillette - South Campbell - Moorcroft - Wyoming Black Hills - Weston

09	1200MST	0	0	Extreme Cold
12	1200MST			

Arctic air brought temperatures into the 15 to 35 below zero range for overnight lows with daytime highs only near zero. Persistent northwest winds kept wind chill indices between 30 and 60 below zero through the period.



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January 1997

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops	



National Weather Service

Storm Data and Unusual Weather Phenomena



February 1997

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops	

SOUTH DAKOTA, West

SDZ025>026

Northern Foot Hills - Central Foot Hills

22	1200MST 1600MST	0	0	7.5K	Winter Storm
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Gusty winds up to 35 mph and snow showers over icy roads created numerous traffic accidents in and around Rapid City. 17 accidents were reported on a 6 mile stretch of Interstate 90 between Blackhawk and Piedmont. 10 accidents were reported in Rapid City, with 1 minor injury.



National Weather Service

Storm Data and Unusual Weather Phenomena



March 1997

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm
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SOUTH DAKOTA, West

SDZ024-028

Northern Black Hills - Central Black Hills

03	0600MST	0	0	Winter Storm
	1600MST			

Light snow and northwest winds of 10 to 25 mph resulted in less than desirable conditions for the central and northern Black Hills. Snowfall amounts of 4 to 6 inches were reported with visibilities less than one-quarter mile at times due to blowing and drifting snow.

SDZ012>013-024>031-041>042

Butte - Meade Co. Plains - Northern Black Hills - Northern Foot Hills - Central Foot Hills - Southern Foot Hills - Central Black Hills - Southern Black Hills - Custer Plains - Pennington Plains - Fall River Co. - Shannon

12	0100MST	0	0	Winter Storm
13	1000MST			

A winter storm of freezing drizzle, fog, and light snow turned roads into ice rinks across the Black Hills and plains of Western South Dakota. Area police and Highway Patrol investigated 80 accidents between 7:00 A.M. and noon on Wednesday morning. Three of the accidents involved minor injuries.

SDZ013-026-031-042

Meade Co. Plains - Central Foot Hills - Pennington Plains - Shannon

24	1100MST	0	0	High Wind (G57)
	1800MST			

A strong pressure gradient over western South Dakota resulted in very strong winds. Rapid City regional airport broke a record, previously set in 1996, for the highest wind gust recorded there.

WYOMING, Northeast

WYZ054>058

Gillette - South Campbell - Moorcroft - Wyoming Black Hills - Weston

12	0100MST	0	0	Winter Storm
13	0800MST			

A winter storm of freezing drizzle, fog, and light snow turned roads into ice rinks and resulted in numerous power outages across northeast Wyoming.



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Storm Data and Unusual Weather Phenomena



April 1997

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops	

SOUTH DAKOTA, West

SDZ001>002-012>014-024>026-028>032-042>044-046>047-049 **Harding - Perkins - Butte - Meade Co. Plains - Ziebach - Northern Black Hills - Northern Foot Hills - Central Foot Hills - Central Black Hills - Southern Black Hills - Custer Plains - Pennington Plains - Haakon - Shannon - Jackson - Bennett - Mellette - Todd - Tripp**

05	0000MST	0	0	50M	Blizzard
06	2000MST				

Snowfall of 1 to 2 feet was common over the northern Black Hills and northwest plains of South Dakota with 6 to 12 inches reported elsewhere. Maximum snowfall was 34 inches at Lead. Drifts of 5 to 15 feet developed as sustained winds over 45 mph with frequent gusts over 60 mph ripped across the area for nearly 24 hours. Peak winds included 71 mph at Ellsworth AFB, 69 mph at Rapid City, 70 mph at Buffalo, and 67 mph at Winner. Almost all roads were blocked or closed and other forms of travel were impossible. Travel was banned in most areas and many emergency response activities were made impossible. Widespread power outages occurred. East of the Black Hills, the problems were compounded by the heavy rain and sleet that fell before the blizzard developed. Hardest hit by the blizzard were ranchers who suffered major livestock losses as calving season was underway.

SDZ013-024-026>032-041>044-046>047-049 **Meade Co. Plains - Northern Black Hills - Central Foot Hills - Southern Foot Hills - Central Black Hills - Southern Black Hills - Custer Plains - Pennington Plains - Haakon - Fall River Co. - Shannon - Jackson - Bennett - Mellette - Todd - Tripp**

09	1200MST	0	0	Winter Storm
10	1800MST			

A late season storm produced snow from the Black Hills through South Central South Dakota. The greatest amounts occurred in a 40 mile wide swath generally along and south of Interstate 90. Snowfall amounts include 9 inches at Rapid City, 12 inches at Deerfield, 10 inches at Custer, 11 inches at Mission, and 12 inches at Winner. Outside this swath, snowfall generally ranged from 3 to 6 inches.

Meade County
3 E Plainview

30	1940MST	0	0	Hail (0.75)
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3/4 inch hail covered the ground.

WYOMING, Northeast

WYZ054>058 **Gillette - South Campbell - Moorcroft - Wyoming Black Hills - Weston**

04	1600MST	0	0	Blizzard
06	0600MST			

Snowfall of 1 to 2 feet combined with 40 to 60 mph winds producing zero visibility and drifts to 15 feet across much of northeast Wyoming. Most roads were closed and power outages were widespread. Ranchers were hard hit with livestock losses as calving season was underway.



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Storm Data and Unusual Weather Phenomena



May 1997

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

SOUTH DAKOTA, West

Harding County									
Buffalo Arpt	04	1548MST 1550MST			0	0			Thunderstorm Wind (G75)
Perkins County									
(Y22)Lemmon Arpt	04	1648MST 1650MST			0	0			Thunderstorm Wind (G62)

WYOMING, Northeast

Campbell County									
15 E Wright	24	1458MST 1502MST			0	0			Hail (0.75)
HAIL FELL AT JACOB'S RANCH MINE									



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Storm Data and Unusual Weather Phenomena



June 1997

									June 199
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>SOUTH DAKOTA, West</u>									
Pennington County 1 W Rapid City	01	1410MST			0	0			Hail (0.75)
Pennington County Rapid City	01	1430MST			0	0			Hail (0.75)
Bennett County 20 W Martin to 20 E Martin	01	1700MST 1900MST			0	0			Flash Flood
Mellette County 15 N Cedar Butte	01	1700MST 2100MST			0	0			Flash Flood
Mellette County 15 N Cedar Butte	01	1700MST			0	0			Hail (2.00)
Mellette County White River	01	1712MST 1715MST			0	0			Hail (0.75)
Mellette County White River	01	1725MST 1730MST			0	0			Hail (0.75)
Bennett County Martin	01	1758MST 1835MST			0	0			Hail (1.00)
Shannon County Pine Ridge	01	1800MST 2000MST			0	0			Flash Flood
Shannon County Pine Ridge	01	1800MST			0	0			Hail (1.00)
Mellette County 15 N Cedar Butte	01	1830MST			0	0			Thunderstorm Wind (G52)
Mellette County 15 N Cedar Butte	01	1900MST			0	0		25K	Hail (3.00)
Bennett County Martin	01	1902MST 1905MST			0	0			Thunderstorm Wind (G56)

During the late afternoon and early evening hours, a significant flash flood occurred from southwest to south-central South Dakota. Large hail, gusty winds and flooding rains were a result of these thunderstorms. In Bennett county, 5 miles west of Martin, two cars were washed off Highway 18 by rushing water over the road. No injuries were reported in either case. Highway 18 had numerous places where water covered the road in Bennett county. In southwest Mellette county, numerous secondary roads were washed out and many places were under water, and three inch hail caused extensive damage to one rancher's home and crops.

Pennington County 7 SW Rapid City to 4 SW Rapid City	02	1500MST 1600MST			0	0	286K	Flash Flood
Pennington County Rapid City	02	1500MST 1600MST			0	0	147K	Urban/Sml Stream Fld
Pennington County 6 W Rapid City	02	1530MST			0	0		Hail (0.75)
Pennington County 8 SW Rapid City	02	1540MST			0	0		Hail (1.00)

During the late afternoon and early evening a localized but rather intense flash-flood occurred in the Rapid Creek drainage basin. A thunderstorm produced rainfall amounts of 2 to 3 inches in less than an hour from Deerfield to Rapid City. More localized amounts



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June 1997

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage	Character of Storm
					Killed	Injured	Property Crops	

SOUTH DAKOTA, West

of four and a half inches in a half hour period were reported in the Chapel Valley area, where extensive damage was also reported. In Cleghorn Canyon, appropriately 7 miles southwest of Rapid City, the water was six to eight feet deep, washing out a couple of driveways and tearing out a couple of bridges. In Red Rock Canyon, approximately 4 miles southwest of Rapid City, the water was eight to ten feet deep and washed out some driveways, bridges, and culverts. A shed from the Chapel Valley area was also washed down stream. In the Rapid City area, some local roads were covered with six inches to over one foot of water, and a local golf course reported some minor flooding.

Bennett County

12 W Martin to
Allen

02 2122MST
03 0400MST

0 0

Flash Flood

Jackson County

15 NW Longvalley to
8 NW Longvalley

02 2122MST
03 0030MST

0 0

Flash Flood

Shannon County

5 W Oglala

02 2122MST
03 0400MST

0 0

Flash Flood

Heavy rain fell over south central South Dakota during the late evening hours causing already swollen rivers and streams to come out of their banks. Minor flooding was reported on U.S. Highway 18 in Bennett and Shannon counties, and over county road 2 and Highway 44 in Jackson county.

Perkins County

10 NW Usta to
5 SE Usta

11 1000MST
1600MST

0 0 24.7K

Flash Flood

Ziebach County

30 NW Dupree to
10 NE Dupree

11 1000MST
1600MST

0 0

Flash Flood

Excessive rain of four to eight inches fell during the overnight and early morning hours over southeast Perkins and northern Ziebach counties; as a result, numerous creeks and the Moreau river overflowed their banks. Sections of Highway 73 and other secondary roads had be closed temporarily due to water flowing over them. Two culverts northwest and west of Usta and three bridges over Deer Creek were washed out.

Shannon County

2 W Oglala

11 1150MST

0 0

Hail (1.75)

Shannon County

3 SE Oglala

11 1205MST

0 0

Hail (0.75)

Mellette County

White River

11 1225MST

0.1 1

0 0

Tornado (F0)

Mellette County

White River

11 1325MST

0 0

Hail (1.75)

A cluster of thunderstorms over southwest and south-central South Dakota produced hail up to golfball size in diameter and a brief tornado. No injuries or damage were reported by the hail or the tornado.

Meade County

Opal to
5 NE Opal

11 1750MST
2300MST

0 0

Flash Flood

Ziebach County

Red Scaffold to
5 NE Red Scaffold

11 1750MST
2300MST

0 0

Flash Flood

Heavy rain during the late afternoon and evening hours across northeast Meade and southwest Ziebach counties produced flash flooding along Brushy, Beaver, and Cherry creeks and the Cheyenne river. The emergency manager from Meade county reported some county roads had been washed out and that water was up to six feet deep in some locations in northeast sections of the county.



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June 1997

June 1997									
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
SOUTH DAKOTA, West									
Meade County 10 SE Sturgis	14	1250MST			0	0			Hail (0.75)
Meade County Sturgis	14	1350MST			0	0			Hail (0.75)
Meade County 10 SE Sturgis	14	1520MST 1600MST			0	0			Funnel Cloud
Pennington County 15 E Rapid City	14	1600MST 1625MST			0	0			Funnel Cloud
Meade County 10 E Piedmont	14	1630MST			0	0			Hail (0.75)
Meade County 10 E Piedmont	14	1630MST			0	0			Hail (4.00)
Meade County Ellsworth Afb	14	1645MST			0	0			Hail (1.00)
A large severe thunderstorm developed near Tilford and moved east across southern Meade county. The storm produced hail up to four inches in diameter and numerous funnel clouds.									
Lawrence County St Onge	14	1645MST			0	0			Hail (1.00)
Fall River County 5 N Hot Spgs	15	1236MST	0.1	1	0	0			Tornado (F0)
A thunderstorm produced a brief tornado near Argyle Road. No injuries or damage were reported									
Harding County 15 N Buffalo	18	2035MST			0	0			Thunderstorm Wind (G52)
Butte County Hoover	18	2120MST			0	0			Thunderstorm Wind (G52)
Strong thunderstorms developed during the late evening hours over northwest South Dakota. These storms produced strong wind gusts to 60 mph, but no damage was reported.									
Shannon County 10 W Pine Ridge	19	1445MST			0	0			Hail (0.75)
Shannon County Pine Ridge	19	1455MST			0	0			Hail (1.75)
A severe thunderstorm produced golfball size hail, damaging numerous cars, over southern Shannon County.									
Meade County Elm Spgs	19	2310MST			0	0	1K		Hail (1.00)
Meade County 2 E Elm Spgs	19	2315MST			0	0	0.50K		Hail (1.00)
Meade County 10 ENE Elm Spgs	19	2315MST			0	0			Hail (2.00)
Meade County 10 ENE Elm Spgs	19	2315MST			0	0	25K		Thunderstorm Wind (G52)
Pennington County 5 N Creighton	19	2330MST			0	0	0.50K		Hail (1.50)
Pennington County 2 E Creighton	19	2330MST 2340MST			0	0	25K		Hail (2.00)



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June 1997

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed Injured		Estimated Damage Property Crops		Character of Storm
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SOUTH DAKOTA, West

Haakon County Philip	20	0015MST			0	0			Thunderstorm Wind (G65)
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Haakon County 25 E Philip	20	0030MST			0	0	0.50K		Hail (1.00)
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Severe thunderstorms moved over western South Dakota during the overnight hours of June 19th and 20th. Large hail and strong thunderstorm winds caused considerable damage to crops and broke several windows in the Elm Springs and Creighton areas. In Creighton, two inch hail piled up to three to four inches deep and wiped out a farmers entire crop.

Shannon County 8 W Pine Ridge	20	0245MST			0	0			Hail (2.75)
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Butte County 1 E Nisland	21	1205MST			0	0			Funnel Cloud
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Butte County 1 E Nisland	21	1208MST			0	0			Hail (0.75)
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Meade County 7 NE Hereford	21	1335MST	0.1	1	0	0			Tornado (F0)
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Meade County 3 SE Elm Spgs	21	1440MST			0	0			Hail (0.75)
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Haakon County Philip	21	1615MST			0	0			Hail (1.75)
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Jackson County 8 NW Kadoka	21	1650MST			0	0			Hail (1.00)
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Jackson County 2 E Kadoka	21	1705MST			0	0			Hail (1.00)
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A severe thunderstorm developed during the early afternoon hours and continued into the evening. The storm produced a funnel cloud and hail over southern Butte County. The same storm later produced a brief tornado over west-central Meade County in an open field. No damage or injuries were reported.

Haakon County Philip	22	1905MST			0	0			Funnel Cloud
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Haakon County Philip	22	1905MST			0	0			Thunderstorm Wind (G52)
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A severe thunderstorm over southern Haakon county produced three funnel clouds and a wind gust to 60 mph near the town of Philip. No damage was reported with the wind.

Perkins County 6 E Bison	23	2340MST 2350MST			0	0	5K		Thunderstorm Wind (G74)
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Perkins County Meadow	23	2345MST 2355MST			0	0			Hail (0.75)
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Perkins County Meadow	23	2345MST 2355MST			0	0	5K	25K	Thunderstorm Wind (G74)
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Crops were destroyed from wind driven hail.

Perkins County 1 N Meadow	23 24	2350MST 0005MST			0	0	5K		Thunderstorm Wind (G74)
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Perkins County 1 N Meadow	23 24	2350MST 0005MST			0	0	25K		Thunderstorm Wind (G75)
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Crops were destroyed from wind driven hail.



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June 1997

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage	Character of Storm
					Killed	Injured	Property Crops	

SOUTH DAKOTA, West

Perkins County

3 N Meadow	23	2352MST			0	0		Hail (1.75)
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Perkins County

6 N Meadow	24	0000MST 0005MST			0	0		Thunderstorm Wind (G50)
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A severe thunderstorm with hail and winds up to 90 mph move through northwest South Dakota during the overnight hours. A roof was blown off a building, numerous power poles were downed, trees were stripped of big branches and many area farmers lost their crops due to wind driven hail. The crop damage over Perkins county could be seen on visible satellite images days after the event.

Pennington County

Rapid City	28	2325MST			0	0		Hail (0.75)
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Pennington County

7 S Wall	29	0020MST			0	0		Thunderstorm Wind (G63)
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During the overnight hours, a strong thunderstorm developed over Rapid City and produced three-quarter inch hail that piled up to two inches deep in southwest Rapid City. The same storm later produced a 72 mph wind gust at the Badlands National Park Pinnacles ranger station. No damage was reported from the hail or the wind.

Pennington County

15 W Rapid City	29	1436MST			0	0		Hail (2.00)
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Pennington County

10 W Rapid City	29	1445MST			0	0		Hail (2.00)
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Pennington County

Hisega	29	1502MST			0	0		Hail (1.50)
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Pennington County

5 SW Keystone	29	1506MST			0	0		Hail (0.75)
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Custer County

15 E Custer	29	1534MST			0	0		Hail (1.75)
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A strong thunderstorm developed during the afternoon hours and produced up to two inch hail in some locations. The storm moved over Mt. Rushmore National Monument and produced three-quarter inch hail, but no injuries or damage were reported.

Perkins County

8 WNW Usta	30	0250MST			0	0		Hail (0.75)
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A severe thunderstorm developed over northwest South Dakota during the overnight hours and produced hail and strong winds which resulted in many branches being broken off trees. A trucker reported hail deep enough that vehicles had difficulty getting through near Buffalo in Harding County.

Mellette County

Wood	30	1520MST			0	0		Hail (0.75)
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Todd County

20 SW Mission	30	1605MST			0	0		Hail (1.00)
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Lawrence County

Deadwood	30	2225MST			0	0		Hail (0.75)
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Meade County

Sturgis	30	2240MST 2245MST			0	0		Hail (2.50)
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Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

WYOMING, Northeast

Crook County									
4 S Sundance	11	1040MST	0.1	1	0	0			Tornado (F0)
Campbell County									
13 SE Gillette	14	1600MST			0	0			Hail (0.75)
Campbell County									
Recluse	23	1950MST			0	0			Hail (1.75)
Crook County									
4 W New Haven	23	2040MST			0	0			Hail (1.00)
Crook County									
New Haven	23	2045MST			0	0			Hail (1.00)
Severe thunderstorms developed over northeast Wyoming during the late evening hours and produced up to golfball size hail. No damage was reported from the hail.									
Campbell County									
Gillette	27	1925MST			0	0	5K		Thunderstorm Wind (G53)
A thunderstorm with little rain resulted in strong straight line winds over Gillette and ripped a roof off a mobile home									
Crook County									
10 NE Moorcroft	28	1720MST			0	0			Hail (1.00)
Crook County									
6 N Sundance	28	1725MST			0	0			Hail (0.75)
Campbell County									
20 N Gillette	29 30	0300MST 1200MST			0	0			Wild/Forest Fire
An electrical storm during the early morning hours resulted in a wild fire that burned 20 to 30 acres of timber north of Gillette. No injuries were reported with the fire and no buildings were damaged.									



National Weather Service

Storm Data and Unusual Weather Phenomena



July 1997

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm
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SOUTH DAKOTA, West

Perkins County									
5 N Bison	01	0045MST			0	0			Hail (1.75)
Haakon County									
2 NW Hilland	01	0240MST			0	0			Hail (0.75)
Meade County									
4 SW Plainview to 4 W Plainview	01	0330MST			0	0			Hail (2.00)
Haakon County									
Philip	01	0410MST			0	0			Thunderstorm Wind (G60)

Strong winds and 1/2 inch diameter hail struck the Philip area. Numerous tree limbs were downed.

SDZ001>002-012>014-024>032-041>044-047-049 **Harding - Perkins - Butte - Meade Co. Plains - Ziebach - Northern Black Hills - Northern Foot Hills - Central Foot Hills - Southern Foot Hills - Central Black Hills - Southern Black Hills - Custer Plains - Pennington Plains - Haakon - Fall River Co. - Shannon - Jackson - Bennett - Todd - Tripp**

01	0900MST 2100MST	0	2						High Wind (G70)
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Winds were sustained over 40 mph much of the day across western and south central South Dakota, and higher gusts were frequent. Damage included downed trees, power outages, and structural damage. Most damage occurred in the central Black Hills where numerous large trees were blown down, localized major structural damage occurred, and numerous small wildfires were sparked.

Ziebach County									
Dupree	01	1330MST 1345MST			0	0			Thunderstorm Wind (G60)

Thunderstorms combined with already gusty winds produced wind damage in the Dupree area. Winds ripped shingles from roofs and damaged trees and gardens. Several power outages were reported.

Butte County									
Belle Fourche Arpt	06	2150MST			0	0			Thunderstorm Wind (G63)
Meade County									
Sturgis	06	2210MST			0	0	3K		Thunderstorm Wind
Meade County									
Ellsworth Afb	06	2259MST			0	0			Thunderstorm Wind (G79)
Pennington County									
Rapid City	10	1540MST 1555MST			0	0	12K		Thunderstorm Wind (G60)

Numerous tree limbs were blown down including some that were 12 inches in diameter. A building supply store received roof damage. Also, scattered power outages occurred.

Bennett County									
Harrington	10	2215MST			0	0			Thunderstorm Wind (G52)
Lawrence County									
8 W Spearfish	12	1433MST			0	0			Hail (1.00)
Meade County									
1 SW Sturgis	12	1545MST			0	0			Hail (1.75)
Fall River County									
7 SE Hot Spgs	12	1545MST			0	0			Thunderstorm Wind (G52)
Shannon County									
Kyle	12	1725MST			0	0			Thunderstorm Wind (G61)

A 60 mph wind gust was reported from Angostura Reservoir Dam.



National Weather Service

Storm Data and Unusual Weather Phenomena



July 1997

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm
<u>SOUTH DAKOTA, West</u>									
Custer County									
Custer	18	1825MST			0	0			Thunderstorm Wind (G60)
Fall River County									
6 E Edgemont	18	1840MST			0	0			Hail (0.75)
Pennington County									
7 W Rapid City	18	1847MST			0	0			Thunderstorm Wind (G61)
Fall River County									
Ardmore	18	1855MST			0	0	2K		Hail (0.75)
Hail broke several windows and piled one to two feet deep.									
Fall River County									
Hot Spgs	18	1855MST			0	0			Thunderstorm Wind (G52)
Power lines were downed.									
Pennington County									
8 SW Rapid City	18	1924MST			0	0			Thunderstorm Wind (G52)
Pennington County									
Wasta	18	1958MST			0	0			Thunderstorm Wind (G52)
Pennington County									
3 NE Creighton	18	2030MST			0	0			Thunderstorm Wind (G55)
Meade County									
15 S Plainview	18	2033MST			0	0			Thunderstorm Wind (G52)
Harding County									
Ladner	18	1830MST			0	0			Thunderstorm Wind (G52)
Large hay bales rolled across fields jumping ditches and fences. Several people who were baling hay quit when large bales began to pass the tractors. Tree damage was also reported.									
Meade County									
12 SW Maurine	19	1408MST			0	0			Hail (2.00)
Meade County									
12 SW Maurine	19	1408MST			0	0			Thunderstorm Wind (G52)
60 mph winds combined with large hail to damage trees along Sulphur Creek.									
Meade County									
10 SW Maurine	19	1410MST			0	0			Hail (1.00)
Meade County									
13 S Faith	19	1535MST			0	0			Hail (1.00)
Hail covered the ground.									
Meade County									
13 S Faith	19	1541MST			0	0			Hail (1.75)
Custer County									
15 SW Custer	19	1630MST			0	0			Hail (2.00)
Bennett County									
15 NE Martin	19	1710MST			0	0			Hail (0.75)
Hail was two inches deep on ground.									
Bennett County									
Martin to Vetal	19	1745MST 2230MST			0	0			Flash Flood
Slow moving thunderstorms produced three to six inches of rainfall within a two hour period in the Martin area. Water up to 1/2 foot deep covered portions of Highway 18 and Highway 73, especially north and east of Martin. Small streams rose out of their banks, and widespread flooding of wheat fields was reported.									



National Weather Service

Storm Data and Unusual Weather Phenomena



July 1997

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Killed	Persons Injured	Estimated Damage Property	Crops	Character of Storm
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SOUTH DAKOTA, West

Haakon County 10 W Philip	22	0435MST			0	0			Hail (0.75)
Todd County Lakeview	22	1615MST 1630MST			0	0	20K	50K	Hail (2.00)
Hail pounded the Lakeview area wiping out corn and oat fields. Several homes had broken windows, and minor structural damage. Hail piled up three to four inches deep.									
Pennington County Hill City	23	1455MST			0	0			Hail (1.75)
Fall River County Edgemont	23	1915MST			0	0	5K		Lightning
Lightning struck a business, destroying a computer and damaging the phone and electrical system.									
Pennington County Wasta	23	2055MST			0	0			Thunderstorm Wind (G52)
Pennington County 25 SW Rapid City	24	1310MST			0	0			Hail (0.75)
3/4 inch hail was reported at Mt. Rushmore.									
Lawrence County 5 W Lead	24	1425MST 1430MST			0	0			Hail (1.75)
Golfball size hail was reported at Deer Mountain.									
Custer County 10 E Hermosa	24	1600MST			0	0			Hail (1.75)
Harding County Buffalo	24	1700MST			0	0			Thunderstorm Wind (G53)
Jackson County Interior	24	1720MST 1740MST			0	0			Hail (0.75)
Jackson County 20 NE Kadoka	24	1845MST			0	0			Hail (0.75)
3/4 inch hail was reported along Highway 63 in northeast Jackson County.									
Mellette County 10 NE White River	24	1945MST			0	0			Hail (1.75)
Lawrence County Lead	24	1400MST 2000MST			0	0			Flash Flood
Pennington County Deerfield to Rochford	24	1400MST 2000MST			0	0			Urban/Sml Stream Fld
Stationary thunderstorms produced over five inches of rain in the Lead and Deadwood area. Rock and mud slides partially blocked Highway 14A west of Lead. Flooding occurred near the intersection of Highway 85 and Highway 385. Several secondary roads were washed out around Lead. Whitewood Creek and Yellow Creek were over their banks. In northwest Pennington County, four to five inches of rain caused the south fork of Rapid Creek to rise over its banks five miles west of Rochford. Minor flooding also occurred along the north fork and along the tributaries of Rapid Creek.									
Perkins County 20 S White Butte	25	1600MST			0	0	20K		Thunderstorm Wind (G60)
A 150 foot pole barn was destroyed.									



National Weather Service

Storm Data and Unusual Weather Phenomena



July 1997

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

SOUTH DAKOTA, West

Harding County									
1.5 E Redig	25	2245MST			0	0			Thunderstorm Wind (G65)
Butte County									
1 N Belle Fourche	26	0000MST 0010MST			0	0	1K		Hail (1.00)
Large hail damaged several cars.									

WYOMING, Northeast

WYZ054>058			Gillette - South Campbell - Moorcroft - Wyoming Black Hills - Weston						
01		0700MST 1900MST			0	0			High Wind (G50)
Winds downed trees and caused power outages. One tree fell on a house in Gillette causing only minor damage. Most damage occurred along the west slopes of the Black Hills where several large trees were uprooted. Several homes in Sundance received roof damage.									
Campbell County									
Gillette	06	1928MST 1940MST			0	0			Thunderstorm Wind (G53)
Numerous tree limbs and power lines were down.									
Campbell County									
15 SE Gillette	06	1957MST			0	0			Thunderstorm Wind (G52)
Weston County									
Upton	06	2049MST			0	0			Thunderstorm Wind (G52)
Weston County									
Newcastle	08	2020MST			0	0			Hail (0.75)
Weston County									
Newcastle	18	1743MST			0	0			Hail (0.75)
Campbell County									
20 N Gillette	18	1900MST 1920MST			0	0	25K		Thunderstorm Wind (G65)
Winds ripped off part of the roof of a mobile home and damaged the interior. A garage under construction was heavily damaged, and windows were broken by the wind. Hail piled up to 1 1/2 feet deep.									
Campbell County									
Recluse to Weston	18	2030MST 2300MST			0	0			Urban/Sml Stream Fld
Low land flooding was reported along Horse Creek and the Little Powder River.									



National Weather Service

Storm Data and Unusual Weather Phenomena



August 1997

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage	Property		Character of Storm
					Killed	Injured	Crops			
<u>SOUTH DAKOTA, West</u>										
Pennington County Hisega	01	1413MST 1513MST			0	0				Hail (0.75)
Custer County Fairburn	01	1530MST			0	0				Hail (1.00)
Pennington County 12 W Rapid City to Rapid City	02	1100MST 1115MST			0	0				Hail (1.00)
Pennington County Rapid City	02	1115MST 1120MST			0	0				Hail (1.75)
Pennington County 5 SW Rapid City	02	1120MST			0	0				Hail (1.50)
Pennington County 7 S Rapid City	02	1125MST			0	0				Hail (2.00)
Meade County Piedmont	02	1250MST			0	0				Hail (1.00)
Pennington County 7 S Wall	02	1512MST MAJOR AUTOMOBILE DAMAGE REPORTED			0	0				Hail (4.00)
Jackson County 5 W Cedar Pass to Cedar Pass	02	1538MST GRAVEL ROADS WASHED OUT IN BADLANDS NATIONAL PARK			0	0				Flood
Jackson County 5 W Cedar Pass	02	1538MST 1648MST			0	0				Hail (1.75)
Butte County 3 S Hoover	08	1930MST			0	0				Hail (1.00)
Butte County 3 S Hoover	08	1930MST TRUCK BLOWN OFF HIGHWAY.			0	0				Thunderstorm Wind (G52)
Pennington County Rapid City	13	1223MST 1225MST MINOR STREET FLOODING REPORTED.			0	0				Hail (1.00)
Pennington County 5 E Rapid City	13	1245MST			0	0				Hail (2.00)
Ziebach County 15 ESE Dupree	13	1330MST			0	0				Hail (1.75)
Haakon County Milesville	13	1500MST			0	0				Hail (1.00)
Pennington County Rapid City	13	1500MST			0	0				Hail (0.75)
Pennington County Rapid City	13	1505MST			0	0				Thunderstorm Wind (G50)
Custer County 5 NW Custer	18	1740MST			0	0				Hail (0.75)
Shannon County Pine Ridge	18	2014MST ROOF BLOWN OFF DORMITORY.			0	0				Thunderstorm Wind (G80)



National Weather Service

Storm Data and Unusual Weather Phenomena



August 1997

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>SOUTH DAKOTA, West</u>									
Shannon County Kyle	18	2042MST			0	0			Thunderstorm Wind (G70)
Lawrence County 12 S Deadwood	26	1342MST			0	0			Hail (1.75)
Pennington County 12 E Rochford	26	1544MST			0	0			Hail (1.75)
Jackson County Cactus Flats	26	1545MST			0	0			Hail (0.75)
Haakon County Philip	26	1620MST			0	0			Hail (0.88)
Mellette County Cedar Butte	26	1900MST			0	0			Hail (0.75)
Todd County Okreek	26	1935MST			0	0			Hail (0.75)
Mellette County 4 S White River	29	1125MST			0	0			Hail (0.88)
Butte County 5 E Belle Fourche	30	1630MST			0	0			Hail (0.75)
Perkins County Shadehill	31	1705MST			0	0			Hail (0.75)
Harding County Buffalo	31	1845MST			0	0			Thunderstorm Wind (G51)

WYOMING, Northeast

Crook County 7 SW Sundance	18	1500MST			0	0			Hail (0.75)
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National Weather Service

Storm Data and Unusual Weather Phenomena



September 1997

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm
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SOUTH DAKOTA, West

Perkins County

7 N Meadow	06	1530MST 1535MST			0	0	5K		Thunderstorm Wind (G61)
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Haakon County

6 N Kirley	06	1608MST			0	0			Thunderstorm Wind (G52)
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A line of strong thunderstorms developed from northwest to south central South Dakota during the late afternoon hours. Strong winds were the main hazard from these storms, blowing trees and a pole barn over in Perkins County. Pea size hail with drifts of three to four feet deep were reported in Haakon County.



National Weather Service

Storm Data and Unusual Weather Phenomena



October 1997

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm
<u>SOUTH DAKOTA, West</u>									
Pennington County									
13 W Rapid City	11	1525MST			0	0			Hail (0.75)
Meade County									
Piedmont	11	1530MST			0	0			Hail (0.88)
Meade County									
3 N Hereford	11	1611MST			0	0			Hail (0.75)
Ziebach County									
15 SE Dupree	11	1615MST			0	0			Hail (1.75)
Golfball size hail covered the ground									
Meade County									
Union Center	11	1630MST			0	0			Hail (0.75)
Meade County									
10 S Union Center	11	1630MST			0	0	8K		Thunderstorm Wind (G80)
Windows were blown out at Hope School									
Ziebach County									
Dupree	11	1630MST			0	0			Hail (0.88)
Meade County									
6 NE Red Owl	11	1636MST			0	0	5K		Hail (1.00)
Hail knocked out windows at several houses.									
Meade County									
White Owl	11	1645MST			0	0			Hail (1.00)
Meade County									
Enning	11	1646MST			0	0	5K		Hail (1.00)
Numerous windows were broken at Enning School.									
Meade County									
Enning	11	1646MST			0	0	4K		Thunderstorm Wind (G90)
Roofs were ripped off several buildings.									
Meade County									
3 E Union Center	11	1646MST			0	0			Hail (1.25)
Hail up to 6 inches deep covered highway 34.									
Meade County									
3 E Enning	11	1650MST	0.2	50	0	0			Tornado (F0)
Brief tornado reported by law enforcement officer along Highway 34. Path length and width are estimated.									
Meade County									
Marcus	11	1653MST			0	0	3K		Thunderstorm Wind (G90)
Roofs were blown off several buildings.									
Ziebach County									
15 W Dupree	11	1715MST			0	0			Hail (2.75)
Ziebach County									
Dupree	11	1730MST			0	0	1K		Hail (1.25)
Windows broken in vehicles.									

Thunderstorms developed over the Black Hills and surrounding plains and moved northeast into Meade County. The storms strengthened causing widespread wind and hail damage from Central Meade County into Ziebach County. Windows were broken out of homes, schools, and cars. Roofs were ripped off several buildings. Highways 34, 212, and 73 were briefly closed in some areas due to high water and deep hail.



National Weather Service

Storm Data and Unusual Weather Phenomena



October 1997

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property Damage	Crops	

SOUTH DAKOTA, West

SDZ001>002-012>014-024>032-041>044-046>047-049 **Harding - Perkins - Butte - Meade Co. Plains - Ziebach - Northern Black Hills - Northern Foot Hills - Central Foot Hills - Southern Foot Hills - Central Black Hills - Southern Black Hills - Custer Plains - Pennington Plains - Haakon - Fall River Co. - Shannon - Jackson - Bennett - Mellette - Todd - Tripp**

12	1000MST	0	0	High Wind (G55)
13	1800MST			

Northwest winds approached 60 mph at times, especially during the afternoon hours of 10/12 and 10/13.

SDZ027>029-041>042 **Southern Foot Hills - Central Black Hills - Southern Black Hills - Fall River Co. - Shannon**

24	0400MST	0	0	Winter Storm
25	0800MST			

Snowfall of 4 to 6 inches was reported across the higher elevations of the central and southern Black Hills with 2 to 4 inches along the foothills. In South Dakota, the heaviest snow fell near the Nebraska border. 6 to 10 inches fell over the southern 1/3 of Fall River County with around 4 inches in southwest Shannon County. The snow, combined with winds to 40 mph, caused near zero visibility at times with blowing and drifting snow



National Weather Service

Storm Data and Unusual Weather Phenomena



November 1997

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm
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SOUTH DAKOTA, West

SDZ001>002-012>014-031>032-042>044-046-049 **Harding - Perkins - Butte - Meade Co. Plains - Ziebach - Pennington Plains - Haakon - Shannon - Jackson - Bennett - Mellette - Tripp**

07	0600MST	2230MST	0	0	High Wind (G50)
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Strong northwest winds between 30 mph and 50 mph howled across western South Dakota most of November 2. A gust of 58 mph was recorded at Ellsworth Air Force Base, while a gust of 53 mph was recorded at Badlands National Park

SDZ024>025

Northern Black Hills - Northern Foot Hills

14	1200MST	0	0	Heavy Snow
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Heavy snow developed over the northern Black Hills and northern foothills during the afternoon Thursday, November, 14, 1997. By Friday afternoon, some 24 hour accumulations included: 14 inches at Galena, 12 inches at Lead, 11 inches at Deadwood and 8 inches at Spearfish.



National Weather Service

Storm Data and Unusual Weather Phenomena



December 1997

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

SOUTH DAKOTA, West

SDZ024	Northern Black Hills				
	10	0100MST 1400MST	0	0	Heavy Snow
An upslope snow event resulted in snowfall amounts of 6 inches in the northern Black Hills					
SDZ001>002-012>014-025>027-029>032-041>044-046>047-049	Harding - Perkins - Butte - Meade Co. Plains - Ziebach - Northern Foot Hills - Central Foot Hills - Southern Foot Hills - Southern Black Hills - Custer Plains - Pennington Plains - Haakon - Fall River Co. - Shannon - Jackson - Bennett - Mellette - Todd - Tripp				
	27 28	1300MST 0230MST	0	0	Winter Storm
SDZ024-028	Northern Black Hills - Central Black Hills				
	27 28	1300MST 0430MST	0	0	Heavy Snow
A strong low pressure system moved through the Northern Plains resulting in snow, very gusty winds, and below zero wind chills. The areas hit hardest by the storm were the northern and central Black Hills. Snow amounts in these areas ranged from four to eight inches. Elsewhere snow amounts were one to two inches, but combined with wind gusts over 50 mph visibilities were occasionally reduced to less than one half mile.					
SDZ024-028	Northern Black Hills - Central Black Hills				
	29 30	1800MST 0500MST	0	0	Winter Storm
An upper level disturbance moved over the central and northern Black Hills and produced upslope freezing rain and snow, below zero wind chills, and strong winds. Snow amounts were six to eight inches. Northwest winds of 15 to 30 mph resulted in below zero wind chills and blowing snow reducing visibilities to less than one half mile.					

WYOMING, Northeast

WYZ054>056	Gillette - South Campbell - Moorcroft							
	27	1200MST			0	0		Winter Storm
	28	0100MST						
WYZ057>058	Wyoming Black Hills - Weston							
	27	1200MST			0	0		Heavy Snow
	28	0100MST						
	A strong low pressure system moved through the Northern Plains resulting in snow, very gusty winds, and below zero wind chills. The area hit hardest by the storm was extreme northeast Wyoming. Snow amounts in this area ranged from four to eight inches. Elsewhere snow amounts were one to two inches but combined with wind gusts over 50 mph visibilities were occasionally reduced to less than one half mile.							
WYZ057	Wyoming Black Hills							
	29	1800MST			0	0		Winter Storm
	30	0500MST						
	An upper level disturbance moved through extreme northeast Wyoming and produced upslope freezing rain and snow over the Wyoming Black Hills. Snow amounts were four to six inches. Northwest winds of 15 to 30 mph resulted in below zero wind chills and blowing snow reducing visibilities to less than one half mile.							